

RENDKO, Gustav, inz. (Bratislava, Palisady 23)

Photochlorination of benzene to increase the  $\gamma$ -isomer content in technical hexachlorocyclohexane. Part 2: Effect of catalyzers and solvents. Chem zvesti 15 no.10:741-749 0 '61.

RENDKO, Gustav

The rapid determination of lignin. Gustav Rendko.  
 Chem. Zvesti 5, 308-22 (1951).—To 0.4 g. of finely ground  
 wood contg. 0.8 g. of unbleached cellulose in a 250-ml. flask  
 with ground stopper add 72 ml. of concd. HCl and shake.  
 After 15 min. add dropwise 3 ml. concd. H<sub>2</sub>SO<sub>4</sub> and  
 shake. Again after 15 min. add 20 ml. 0.14 N KBrO<sub>3</sub> +  
 KBr (4.170 g. KBrO<sub>3</sub> + 30 g. KBr in 1 l.) and wet the stop-  
 per. After 30 min. add 2 g. KI in 25 ml. H<sub>2</sub>O and after  
 5 min. titrate with 0.1 N Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, the excess iodine with  
 starch as indicator (the amt. used is a). Dry matter,  
 benzene-alc. ext., and ash are detd. The amt. used for the  
 blank test is b. % lignin =  $\frac{[103.55(b-a)] - 70.23en}{[n(100 - (k + e + p))] - 0.06}$ , in which a = ml. of 0.1 N  
 Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> with factor f, b = ml. of 0.1 N Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> with factor %  
 lignin  $\frac{[103.55(b-a)] - 70.23en}{[n(100 - (k + e + p))] - 0.06}$  f for blank, f = factor 0.1 N Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, n = wt. of the  
 sample in g., e = % ext., k = % H<sub>2</sub>O, and p = % ash.  
 Jan Micka

RENDL, JAROSLAV.

Vyroba drevovlaknitych desek; prakticka technologie. (Vyd. 1.) Praha, Statni nakl. technicke literatury, 1957. 142 p. (Principles of perfume making. 1st ed. illus.)

SO: Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 5, May 1958

RENDLA, F.

"Moisture in heat insulations and its elimination."

[Supplement] p. 8 (Prumysl Potravin, Vol. 9, No. 6, 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 9, September 1958.

RENDLA, F., inz.

Insulation for low temperatures. Stavivo 41 no.9:311-313  
S'63.

1. Ceske vysoke uceni technicke, Praha.

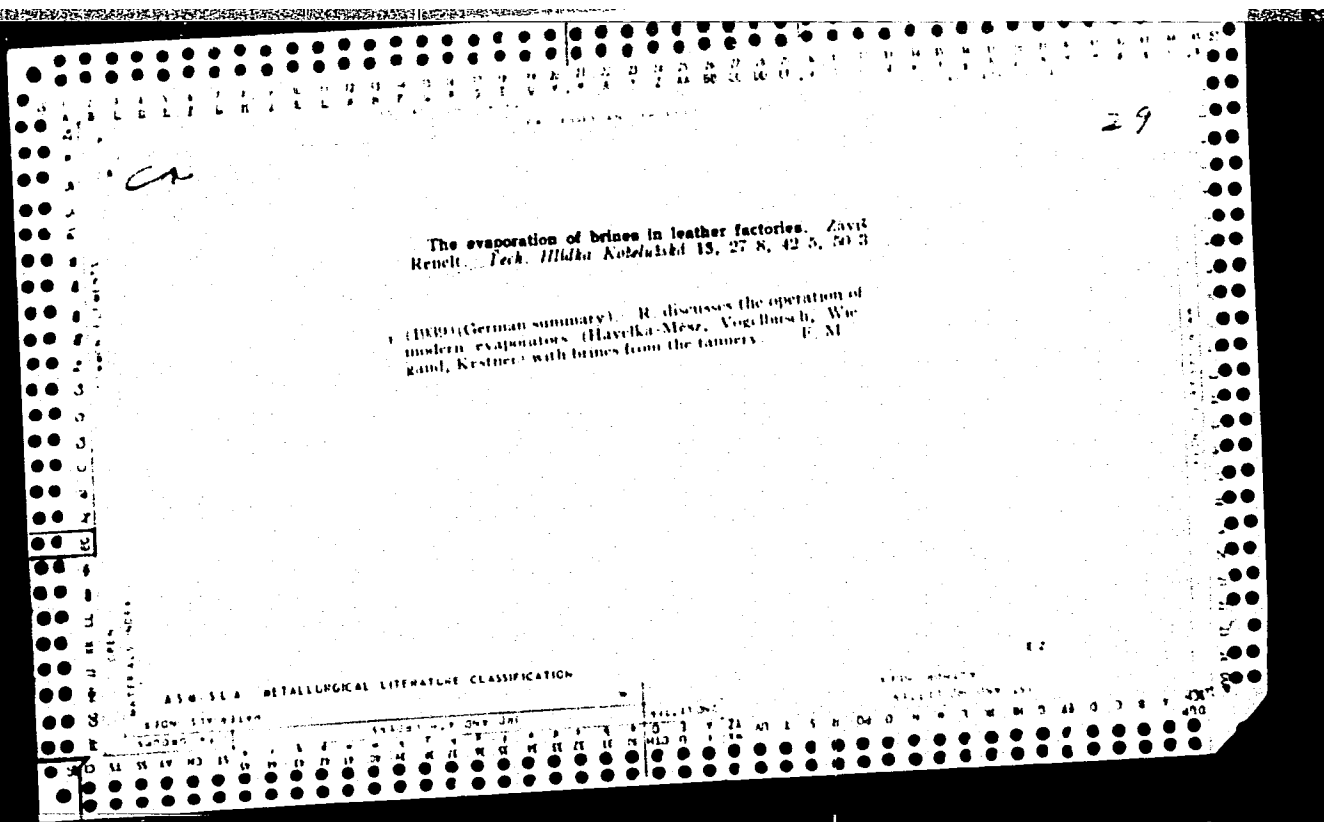
1955, V.

Technical and organizational measures, guarantee of fulfillment of production goals. p. 96. PAPIR A CERNOSTA. (Ministerstvo lesu a dřevárskeho průmyslu) Praha. Vol. 11, no. 5, May 1955.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

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The rapid determination of lignin - Gustav Rendke  
 (Z. Anal. Chem. 308, 24, 1954) - 1 to 0.1 g. of finely ground  
 wood containing 0.8 g. of unbleached cellulose in a 250-ml. flask  
 with ground stopper add 72 ml. of concd. HCl and shake.  
 After 15 min. add dropwise 3 ml. concd. H<sub>2</sub>SO<sub>4</sub> and  
 shake. Again after 15 min. add 20 ml. 0.1 N KBrO<sub>3</sub> and  
 KBr (1.176 g. KBrO<sub>3</sub> + 30 g. KBr in 1 l.) and wet the stop-  
 per. After 30 min. add 2 g. KI in 25 ml. H<sub>2</sub>O and after  
 5 min. titrate with 0.1 N Na<sub>2</sub>S<sub>2</sub>O<sub>4</sub> the excess iodine with  
 starch as indicator (the amt. used is a). Dry matter,  
 benzene-sol. ext., and ash are detd. The amt. used for the  
 blank test is b. % lignin =  $\frac{[a(100) - (h + e + p)11] - 0.96b}{[a(100) - (h + e + p)11] - 0.96b}$  in which a = ml. of 0.1 N  
 Na<sub>2</sub>S<sub>2</sub>O<sub>4</sub> with factor f, b = ml. of 0.1 N Na<sub>2</sub>S<sub>2</sub>O<sub>4</sub> with factor f,  
 lignin  $\frac{[a(100) - (h + e + p)11] - 0.96b}{[a(100) - (h + e + p)11] - 0.96b}$  for blank, f = factor 0.1 N Na<sub>2</sub>S<sub>2</sub>O<sub>4</sub>, n = wt. of the  
 sample in g., e = % ext., h = % H<sub>2</sub>O, and p = % ash.  
 Jan Miska





RENDOS, F.; KOZMAL, F.

"Studies of the primary wood-cell wall." Pt. 2. P. 97.

PAPIR A CELULOZA. (Ministerstvo lesu a drevarskeho prumyslu). Praha, Czechoslovakia, Vol. 11, No. 5, May 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,  
August 1959.  
Uncia.

Title : *Investigation of the Primary Cell Wall in Wood*  
 Author : *Kozmal, F. and Rendos, F.*  
 Institution : *Not given*  
 Date : *Referat Khim.-Khim., No 11, 1959.*  
 Subject : *Chemical Technology. Chemical Products and Their Applications--Chemical wood products. Hydrolysis*  
 Index : *40231*

Orig. Doc. : *Papir i Celulosa, 15, No 10, 117-222 (1958)*

Abstract : *The local effect of chemical reagents on wood cells depends on the condition of the primary cell wall. It has been found that the effect of  $H_2SO_4$ ,  $H_3PO_4$ , and  $ZnCl_2$  on the cell wall under various conditions depends on the state of the surface of the fibers and shows a marked dependence on the chemical composition of the wood cellulose (C). The primary cell wall and the first layer of the secondary cell wall are considerably less resistant to acid solvents than to alkaline solvents. The surface of fibers of sulfate C shows little change after cooking, a fact which may be the explanation for the rela-*  
 Card: 1/1

*H-103*

Institut. :  
 Title :

Abstract : *tively lower reactivity of sulfate C. No differences could be observed between the structure of the primary cell wall in spring and fall wood.*  
*from author's summary*

*Card: 1/1*

RENDOS, Frantisek

Study of the nitrogen substances in wood. Pt.1. Drevarsky vyskum  
no.2:57-61 '64.

1. Institute of Chemistry of the Slovak Academy of Sciences,  
Bratislava.

RENDOS, F.

B-8

CZECHOSLOVAKIA/Physical Chemistry - Thermodynamics,  
Thermochemistry, Equilibria, Physical-Chemical  
Analysis, Phase Transitions.

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 20601

Author : R. Domanský, F. Rendos.

Inst :

Title : Solubility of Sulfure Dioxide in Aqueous Ammonium Solutions

Orig Pub : Chem. zvesti, 1957, 11, No 8, 453-460

Abstract : The solubility of  $\text{SO}_2$  in 0.5 to 2.0% aq. ammonium solutions in water was measured at 15 to 30°. The equipment and the methods of measurement are described. The dissolution of  $\text{SO}_2$  follows Henry's law. The solubility is less in diluted  $\text{NH}_4\text{HSO}_4$  solutions than in water. The solubility of  $\text{SO}_2$  decreases to a minimum with the rise of ammonium sulfite concentration, after which it increases again.

Card 1/1

RENDOS, F.

V. The solubility of sulfur dioxide in ammonia water solutions. R. Domansky and F. Rendos (Chem. ustav, Slovenska akad. vied. Bratislava, Czech.). Chem. zvesti 11, 463-60 (1957) (German summary). The soly. of  $\text{SO}_2$  in 0.5, 1.0, 1.5, and 2.0% solns. of  $\text{NH}_3$  at 15°, 20°, 25°, and 30° was measured. After the conversion of  $\text{NH}_3$  into  $\text{NH}_4\text{H}$ ,  $\text{SO}_2$ , the soly. of free  $\text{SO}_2$  is governed by Henry's law. The soly. of the free  $\text{SO}_2$  in dild. solns. of  $\text{NH}_4\text{HSO}_4$  is lower than its soly. in  $\text{H}_2\text{O}$ . With increasing concn. of  $\text{NH}_4\text{HSO}_4$  the soly. decreases to a min. and with a further increase of concn. it is increased. Jan. Micka

RENDOS, Frantisek, inz.

Recording photometer for evaluation of paper chromatograms.  
Chem zvesti 17 no.12:916-919 '63.

1. Ceskoslovenska akademie ved, Chemicky ustav Slovenskej  
akademie vied, Bratislava, Dubravska cesta.

RNDOS, Frantisek, Ing. CSc.

Determination of sugars by paper chromatography. Chem zvesti  
18 no.1:56-61 '64

1. Chemicky ustav, Slovenska akademia vied, Bratislava, Dubrav-  
ska cesta.

Rendoš, R.

2788. SOLUBILITY OF SULPHUR DIOXIDE IN AQUEOUS SOLUTIONS OF AMMONIA.  
Domanský, R. and Rendoš, R. (Chem. Zvesti (Chem. Bull., Bratislava), 1957,  
vol. 11, 453-460).

PM



RENDOS, S.

"The present and future development of electric-power production in Slovakia."

p. 64 (Energetika) Vol. 8, no. 2, Feb. 1958.  
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

RENE, Balley, dr

Our experiences with electric shock therapy in narcosis and muscle-relaxation with leptosuccine. Neurosihijatrija 8 no.1/2:58-65 '60.

1. Iz nervnog odjeljenja sreske bolnice u Somboru (Sef odjeljenja Dr. Balley Rene)  
(SUCCINYLCHOLINE ther)  
(SHOCK THERAPY ELECTRIC)  
(ANESTHESIA)

RENE, Balley

Studies on insulin-sensitivity in insulin coma therapy. Neuro-  
psihijatrija 7 no.3:211-221 '59.

1. Iz neuropsihijatrijskog odjelenja sreske bolnice Sombor, sef  
odjelenja: dr. Balley Rene.  
(SHOCK THERAPY INSULIN)

HUNGARY/Chemical Technology. Chemical Products and Their Applications. Fertilizers. H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 20041

Author : Balla, Bela; Rene, Tibor

Inst : -

Title : Thermal Decomposition of Natural Phosphate by Means of a Sodium Sulfate.

Orig Pub : Nehezvegyipari kutato int. kozl., 1958, 1, No 1-2, 13-19

Abstract : A method was developed for obtaining thermo-phosphate by heating a batch consisting of natural phosphate,  $\text{Na}_2\text{SO}_4$  (by-product), coal and  $\text{SiO}_2$  sand. The molecular ratio of  $\text{Na}_2\text{O} : \text{P}_2\text{O}_5$  in the batch should not differ significantly from the ratio during the production

Card : 1/3

14-25

HUNGARY/Chemical Technology. Chemical Products H  
and Their Applications. Fertilizers.

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 20041

soluble form. Bibliography, 18 titles. --  
From the authors' summary.

Card : 3/3

14-27

CASLER, Gh., prof.; BELOUS, V., lector; RENER, A., lector; CONDREA, I.,  
asist.; ILIE, I., ing.; ZERELLES, W., ing., SCHMIDT, H., ing.

Influence of the geometry of the cutting part of helicoidal  
drills on the drilling dynamics of some Rumanian steels.  
Constr mas 15 no.8:562-569 Ag'63.

1. Institutul politehnic, Iasi (for Casler, Rener, Condrea).
2. Fabrica de scule, Risnov ( for Ilie, Zerelles, Schmidt).

RENER, A.

Roller bearings. (To be contd.) p. 23.

Periodical: STROJNISKI VESTNIK.

Vol. 5, no. 1, Jan. 1959.

TECHNOLOGY

SO: Monthly List of East European Accessions (EEAI) LC

Vol. 8, no. 4  
April 1959, Uncl.

RENER, Constantin, ing.

Increasing the technical level of production, an important concern. Constr Buc 15 no.724:2 23 N '63.

1. Seful serviciului Control Tehnic al Calitatii, la Intreprinderea de Prefabricate de Elemente de Constructie, Brasov.



1. Introduction.

Calibration of extruding machines as rheometers. Bul Inst  
Politekh 25 no.4 65-79 11-Ag '63.

2. Rheological Works of Plastic Masses.

✓ Application of Romanian steels in the construction of chemical machinery and apparatus. M. Renert. Rev. Chim. (Bucharest) 5, 331-3 (1954).—Romanian steels are compared to Soviet steels. Many Romanian steels can be used to replace these. Example: Romanian steel 13 NC 185 X is of austenitic structure, contains C up to 0.15, Cr 17-20, Ni 8-10, Ti up to 0.8%. In analysis and thermal behaviour it is completely equiv. to Soviet steel Ya 1T, and can be used in equipment in which 50% H<sub>2</sub>SO<sub>4</sub> is handled at temps. up to 70°. The Romanian industry does not yet manuf. all the steels which the chem. industry needs, but Bakelite resins have been developed with which unsuitable steels can be coated. The equipment needed for the chem. industry can be manufd. domestically in this way.

Werner Jacobson

REMENT, N.

TECHNOLOGY

Periodicals: METALURGIA SI CONSTRUCTIA DE BASEN. Vol. 10, no. 5, May 1958

REMENT, N. The spherical gas holder. p. 454

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2,  
February 1959, Unclass.

REVERT, M., conf. ing.

Problems of calculation and construction of joint flanges.  
Constr mas 16 no.5:248-251 My'64

18-000000, 11

RENERT, M.

RENERT, M. Contributions to the calculation of flanges. p. 10.

Vol. 8, no. 11, Nov. 1956

METALURGIA SI CONSTRUCTIA DE MASINI.

TECHNOLOGY

RUMANIA

So: East European Accession, Vol. 6, No. 5, May 1957

NUMBER 1; III, I.

Production of high pressure vessels by winding a profile band. Pt. 1. (To be contd.)

P. 10 (ROMANIA) DI CONSTRUCTIA DE MASINI (Bucuresti, Rumania) Vol. 10, no. 1, Jan. 1958

30: Monthly Index of East European Accessions (IEAI) 10 Vol. 7. No. 1. 1958

RENERT, V. K.

On the problem of pulmonary cancer morbidity in the Latvian Republic.  
Vop. klin. lech. zlok. novoobraz. 7:49-52-161.

Respublikanskiy onkologicheskiy dispanser Ministerstva dravookhra-  
neniya Latviyskoy SSR (glavnyy vrach, M. G. Sopil'nyak).

(LUNG NEOPLASMS statist)

REBERT, Yu.L.

Effect of various quantities of a homogenous nutritional stimulant  
on the motor function of the gallbladder in duodenal ulcer. Trudy  
1-go MMI 39:125-130 '65. (MIRA 18:9)



BEZUGLOV, I.Ye.; BOCHARNIKOV, V.M., inzh.; Primalni uchastiye: TIKHONOV, M.I.;  
LODZYATO, V.V.; RENESLATSIS, L.P. [Reneslatis, L.]

Some characteristics of the oil extraction system equipped with a  
"Lurgi 100" continuous line. Masl.-zhir.prom. 30 no.2:31-32 F  
'64. (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov (for  
Bezuglov, Bocharnikov, Tikhonov, Lodzyato). 2. Liyepayskiy  
masloekstraktsionnyy zavod (for Reneslatis).

J. of Iron & Steel Inst  
2176 Jan 1954  
Protective Coating

RENEV, A. D.

✓ Improving the Performance of Electro-Metallizing Machines.  
A. D. RENEV. (*Stanki i Instrument*, 1952, No. 12, 30). [In Russian]. Adherence of zinc to the nozzle of the atomizer of an electric metallizing machine has been prevented by replacing the ordinary cylindrical atomizer with a conical one made of polished steel and chromium-plated.—S. K.

1. RENEV, A. D.
2. USSR (600)
4. Metal Spraying
7. Improving the work of electric metal sprayers. Stan.i instr. 23 no. 12, 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

RENEV, A. K.

RENEV, A. K. - "The effect of using internal-combustion engines on the development of Russian naval surface-vessel construction at the end of the 19th and the first quarter of the 20th century". Leningrad, 1954. Leningrad Shipbuilding Inst. (Dissertation for the Degree of Candidate of Technical Sciences).

SO: Knizhnaya Letopis' No. 46, 12 November 1955. Moscow

RENEV, V.K.; GANOPOL'SKIY, V.I.

Use of the X-ray fluorescence spectral method for the analysis  
of rare-earth elements. Zav. lab. 29 no.9:1076-1077 '63.

(MIRA 17:1)

RENEVA, T. G.

"An Open Gunshot Wound of the Heart with Damage to His's Bundle and the Tricuspid Valve,"  
Klin. Med., 27, No. 11, 1949. Mbr., Faculty Therapeutics Clinic, Sverdlovsk Med. Inst.,  
-c1949-.



KUSHELEVSKIY, B.P., prof., RENEVA, T.G., dots. (Sverdlovsk)

Vasovagal syndrome in the case of an accessory cervical rib.  
Klin.med. 36 no.6:137-139 Je '58 (MIRA 11:7)

1. Iz fakul'tetskoy terapevticheskoy kliniki Sverdlovskogo meditsinskogo instituta.

(SCALENUS ANTICUS SYNDROME, case reports,  
vaso-vagal synd. in cervical rib (Rus))

(RIBS, abnorm.

accessory cervical rib causing vasovagal synd. (Rus))

(SYNCOPE, etiol. & pathogen.

vasovagal synd. caused by accessory cervical rib (Rus))

(CARDIOVASCULAR DISEASES, etiol. & pathogen.

vaso-vagal synd. caused by accessory cervical rib (Rus))



RENEVA, T. G., Doc Med Sci -- (diss) -- "Hypertension in patients who have had concealed brain traumas". Sverdlovsk, 1960. 26 pp (Sverdlovsk State Med Inst, Chair of Faculty Therapy), 200 copies (KL, No 15, 1960, 139)

RENEVA, T.G., kandidat meditsinskikh nauk (Sverdlovsk).

Blood circulation during the acute period of closed brain trauma. Klin.med.  
31 no.10:43-48 0 '53. (MIRA 6:11)

1. Iz fakul'tetskoy terapevticheskoy Kliniki (zaveduyushchiy - professor  
B.P.Kushelevskiy) Sverdlovskogo meditsinskogo instituta.  
(Brain--Wounds and injuries) (Blood--Circulation)

KIRILLOV, G.N., inzh.; RENGACH, V.N., inzh.

Builders of hydraulic structures on advanced frontiers. Transp. stroi.  
15 no.5:30-33 My '65. (MIRA 18:7)

KUZNETSOV, P.I.; RENGACH, V.N.; BANNOV, A.V., red. izd-va; GURDZHIYEVA,  
A.M., tekhn. red.

[Interesting new developments in technology] Interesnye tekhnicheskie novinki. Leningrad, Ob-vo po raspr. polit. i nauchn. znanii RSFSR, 1961. 110 p. (MIRA 15:12)

1. Sekretar' Oktyabr'skogo rayonnogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza goroda Leningrada (for Kuznetsov).
2. Zaveduyushchiy Kabinetom novoy tekhniki i peredovogo opyta Oktyabr'skogo rayona goroda Leningrada (for Rengach).  
(Technological innovations)

KUZNETSOV, Pavel Ivanovich; RENGACH, Vitaliy Nikitich; PROTASOV,  
K.G., prof., nauchn. red.; MAKUKHIN, V.L., red.;  
GURDZHIYEVA, A.M., tekhn. red.

[Interesting technological innovations] Interesnye tekhnicheskies novinki. Izd.2., perer. i dop. Leningrad, Obvo po raspr. polit. i nauchn. znaniy RSFSR, 1962. 206 p.  
(MIRA 16:12)

1. Sekretar' Oktyabr'skogo rayonnogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza g.Leningrada (for Kuznetsov).
2. Zaveduyushchiy Kabinetom novoy tekhniki i peredovogo opyta Oktyabr'skogo rayona g.Leningrada (for Rengach).  
(Technological innovations)

RENGARTEN, G. P.

"Interpolating the 'Certainty' (Statistical quantity) of Water Depths in Tideless Ports,"  
No 3, p 70.  
(Meteorologiya i Gidrologiya, No 5 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

104

8

A zeolite from the mordenite group in the upper Cretaceous and Paleogene marine deposits of the eastern slope of the Ural. N. V. Rengarten. *Compt. rend. acad. sci. U.R.S.S.* 48, 507-3(1945)(in English). - A discussion of the crystallography and possible origin of the zeolites of the Danian strata. Chem. analyses are given.

John E. Husted

ASH-SEA METALLURGICAL LITERATURE CLASSIFICATION

| CLASSIFICATION | REMARKS |
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| 104            |         |
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1. RENGARTEN, N. V.
2. USSR (600)
4. Petrology - Ural Mountains
7. Petrography of the Cretaceous and Paleocene deposits of the eastern slope of the Urals. (Abstract.) Izv. Glav. upr. geol. fon., no. 3, 1947.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.



RENGARTEN, N. V.

PA38TL46

USSR/Geology  
Stratification  
Phosphorous

Nov 1947

"Phosphorous-bearing Capacity of the Basalt Strata of the Lower Yuri Strata in the M. Iaba River Basin (Northern Caucasus)," N. V. Rengarten, Z. M. Starostina, Caucasus Combined Expedition, Soviet for Investigation of Productive Forces, Institute of Geological Sciences, Academy of Sciences of the USSR, 3 pp

"Dok Ak Nauk" Vol LVIII, No 4

The lower Yuri deposits of the M. Iaba River can be divided into three distinct and separate lithological strata. The basalt strata is usually the lowest of

38TL46

USSR/Geology (Contd)

Nov 1947

the three, and is most evident in the region of Kmut Verlyut. The authors discuss some of the factors which might explain the reasons for the presence of phosphorous in these basalt deposits. Submitted by Academician D. S. Belyankin, 5 May 1947.

38TL46

RENGARTEN, N. V.

PA 77T28

USSR/Geological Prospecting  
Minerals, Deposits  
Phosphates

Apr 1948

"Goyacite in the Belikov Formations on the Eastern  
Slopes of the Urals," N. V. Rengarten, 3 pp

"Dok Ak Nauk SSSR" Vol LX, No 3

Subject formations are closely related to Alapayev  
type iron ore deposits. Describes nature and  
characteristics of subject deposits. Submitted by  
Acad D. S. Belyankin 17 Feb 1948.

77T28

**CIA-RDP86-00513R0014446**

CH

8

**Boehmite from Northern Caucasus.** N. V. Rengarten  
Doklady Akad. Nauk SSSR 69, 1257 (1940). Well-  
cryst. boehmite occurs in lagoon and swamp sediments of  
concretionary type, with magnetite and hematite in ir-  
regular agglomerates, and nests of pure, milk-white kaolinite.

The cement is usually either chlorite, or cryptocryst.  
boehmite. The chlorite is highly variable, color pale-  
greenish to dark brown-red, with  $n_s$  between 1.612 and 1.700,  
in the oxidized portions intimately intergrown with Fe  
hydroxides. The boehmite is the latest crystn. product,  
amidst geodes filled with kaolinite, or in the chlorite meshes,  
or with magnetite in all transitions from cryptocryst.  
("amorphous") concretions, to well-developed crystals.  
The spindle- or wedge-shaped individuals have prismatic  
habit, with excellent cleavage (010), less perfect (001);  
 $\gamma = 1.600$ ;  $\alpha = 1.651$ ;  $\gamma - \alpha = 0.015$ ;  $2V = +78$  to  
 $84^\circ$ ; optical axes plane parallel to (010). The genesis of  
these boehmite crystals is due to deep chem. decompos. of  
serpentinites, cryst. schists, and interspersed spilites,  
diabases, albitophyres, etc.; the acid solns. transferred  
 $SiO_2$ ,  $Al_2O_3$ , and  $Fe_2O_3$  hydrates to the sea, but near the  
coasts these have been pptd. by neutralization to mixed  
gels. In the following period of diagenesis,  $Fe^{3+}$  was re-  
duced to  $Fe^{2+}$  by swamp waters; the aged gels formed the  
dense magnetite and chlorite, and kaolinite was formed  
beneath the swamp deposits high in org. material, while  
 $Mg^{2+}$ ,  $Fe^{2+}$ , and  $Fe^{3+}$  were dissolved and eliminated.  
Boehmite was formed by diagenesis of the excess Al hy-  
droxide gels, and the process is observed in all its stages  
from the original gels to the well-cryst. mineral.  $SiO_2$   
hydrogels are entirely absent, because of the high mobility  
of their suspensions, at pH = 0.5 to 7.5. The great vari-  
ability of the cryst. products in the sediments described  
corresponds to the heterogeneity of the primary colloids.

W. Engel

Inst. of Geol. Sci., AS USSR

C. R.

1951

Mineralogical and Geological  
Chemistry

**Laumontite and analcime.** N. V. Rengarten (Inst. Geol. Sci., Acad. Sci. U.S.S.R.). *Doklady Akad. Nauk S.S.S.R.* 70, 485-8 (1950). Both zeolites occur in Lower Jurassic sediments of the depression of R. Malka (N. Caucasus) in a serpentinite massif. They cement dolomitic Fe-oolites (bean ores) and sandstone. Microscopic examination shows that laumontite crystal before analcime. Both minerals occur in small granular aggregates and also in distinct crystal forms. Laumontite is biaxial, neg., 21° varying between 41 and 64°,  $n_x = 1.527$ ,  $n_y = 1.511$ , and angle  $c : z = 18$  to  $28^\circ$ . Analcime has  $n = 1.485$ , slight anomalous birefringence, and is intimately twinned. Sometimes it has inclusions of a hexagonal-prismatic mineral, with  $n$  about 1.520. The chem. analysis of the intimate intergrowth of analcime and laumontite is revealed. MgO is evidently derived from the serpentinite of the country rock. The genesis of the zeolites in these sediments differs from the usual occurrence in volcanic tuffs. No indication for a hydrothermal or metamorphic origin is observed. The zeolites must therefore have been formed at low temperatures near a marine coast where Na, Ca, and Mg salt solutions reacted with colloidal decomposition products of the primary rocks under a high O potential. Fe hydroxide was precipitated and later cemented by the newly formed zeolites. Paleogreen chlorite in characteristic spherulitic aggregates was locally intermediate. It is justified to speak of a particular "zeolitization facies" as a geochem. phenomenon determined by reactions of colloidal  $Al(OH)_3$  and  $SiO_2$  suspensions with Na, Ca, and Mg salt solutions of relatively high concentration. W. Engel

RENGARTEN, N.V.

27 18  
Titanium minerals in Carboniferous sedimentary rocks.  
N. V. Rengarten. *Trudy Geol. Inst. Akad. Nauk S.S.S.R.*  
1956, No. 6, 125-34. Brookite, anatase, and leucocane  
occur in the Karaganda coal formations. They are assoc-  
with fine- and medium-grained sands of river and lake-shore  
alluvia. Ti mineral aggregates are found in the presence of  
highly oxidized residues of plant origin. The most wide-  
spread forms of brookite and anatase are microscopic geodes,  
whose interior consists of kaolinite or calcite. The order  
of formation of authigenic minerals in the Karaganda sands

is: chlorite, pyrite, Ti minerals, kaolinite, calcite.

C. H. Fuchsman

RG fra  
jyp

RENGARTEN, N.V.

Lithology, facies, and mineral composition of the upper half of the  
Karaganda series in Karaganda Basin. Trudy lab.geol.ugl. no.2:236-  
251 '54. (MIRA 8:7)

(Karaganda Basin--Geology, Stratigraphic)

RENGARTEN, N. V.

USSR/Mining - Petrography

Card : 1/1

Authors : Petrenko, A. A., and Rengarten, N. V.

Title : Development of phosphates in the lower coal-bearing strata of the Karagandinsk Basin and the Zavyalovsk coal region

Periodical : Dokl. AN SSSR, 97, Ed. 2, 319 - 322, July 1954

Abstract : Report deals in the discovery of phosphates in lower coal-bearing strata of Karagandinsk and Zavyalovsk coal regions. Microscopic study of the phosphorites showed that the latter contain fine quartz grains, traces of fieldspar, silicon, etc. Three references.

Institution : Acad. of Sc. USSR, Sections of Geological-Geographic Sciences, Coal Geology Laboratory

Presented by : Academician D. V. Nalivkin, May 11, 1954



RENGARTEN, N. V.

USSR/Minerals

Card 1/1 Pub. 22 - 37/49

Authors : Rengarten, N. V.

Title : ~~Neogeneses of Ti minerals in sandy rocks of coal bearing strata~~  
Neogeneses of Ti minerals in sandy rocks of coal bearing strata

Periodical : Dok. AN SSSR 102/1, 149-152, May 1, 1955

Abstract : Mineralogical data are given regarding the new formations of titanium minerals discovered in sandy rocks of the Karagenda coal bearing strata. Illustrations.

Institution : Acad. of Sc., USSR, Lab. of Coal Geol.

Presented by : Academician D. I. Shcherbakov, December 3, 1954

MASLOV, V.P.; RENGARTEN, N.V.

Find of fossil calcareous algae in loess. Dokl. AN SSSR 159  
no.3:579-581 N '64 (MIRA 18:1)

1. Geologicheskii institut AN SSSR. Predstavleno akademikom  
N.M. Strakhovym.

RENGARTEN, N.V.; KONSTANTINOVA, N.A.; NIKIFOROVA, K.V., otv. red.;  
PKYVE, A.V., akademik, glavnyy red.; KUZNETSOVA, K.I., red.;  
MENNER, V.T., red.; TIMOFEEV, P.P., red.

[Role of facies-mineralogical analysis in the reconstruction  
of the Quaternary climate; as revealed by a study made in  
southern Moldavia and the southwestern Ukraine.] Rol'  
fatsial'no-mineralogicheskogo analiza v rekon - struktsii  
klimata antropogena. Moskva, Nauka, 1965. 120 p. (Akademiia  
nauk SSSR. Geologicheskii institut. Trudy, no.137)

(MIRA 18:11)

NIKIFOROVA, K.V.; RENGARTEN, N.V.; KONSTANTINOVA, N.A.

Quaternary formations in the southern area of the European part  
of the U.S.S.R. Biul. Kom. chetv. per. no.30:3-25 '65.

(MIRA 19:2)

RAZUMOVA, Valentina Nikolayevna; RENGARTEN, N.V., otv.red.; MISHINA, R.L.,  
red.izd-va; NOVICHKOVA, N.D., tekhn.red.; LAUT, V.G., tekhn.red.

[Cretaceous and Tertiary formations in the western part of central  
and southern Kazakhstan] Melovye i tretichnye formatsii zapadnoi  
chasti Tsentral'nogo i Iuzhnogo Kazakhstana. Moskva, Izd-vo Akad.  
nauk SSSR, 1961 226 p. (Akademiia nauk SSSR. Geologicheskii institut.  
Trudy, no.46). (MIRA 14:12)

(Kazakhstan--Geology)

RENGARTEN, N.V.

Significance of pyroclastic materials in the Karaganda series of  
the Karaganda Basin. Dokl. AN SSSR 115 no.5:995-998 Ag '57.  
(MIRA 11:3)

1. Laboratoriya geologii uglya Akademii nauk SSSR, Leningrad. Pred-  
stavleno akademikom D.V. Malivkinym.  
(Karaganda Basin--Geology)

RENGARTEN, N.V.

11-1-1/29

AUTHOR: Zhemchuzhnikov, Yu.A.

TITLE: Similarities and Differences of Features Between Facies, Facies-Cyclic and Facies-Geotectonic Methods of Studying Coal-Bearing Strata (Skhadstvo i razlichiya mezhdue fatsial'nym, fatsial'no-tsiklicheskim i fatsial'no-geotektonicheskim metodami izucheniya uglenosnykh tolshch)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958, # 1, pp 3-11 (USSR)

ABSTRACT: At the second Coal Geological Conference held in March 1955, the lectures of G.A. Ivanov, T.A. Ishina, V.V. Koperina, N.V. Rengarten and others dealt with different methods of examining coal-bearing strata. G.A. Ivanov and the author belong to a group of geologists who regard periodicity as one of the most important features of coal-bearing strata. The author elaborates on the similarities and differences existing between his views and those of G.A. Ivanov. Ivanov proposes to conduct the observations first of the facies, and afterwards of geotectonics, and therefore his method is called the facial-geotectonic method. However, his method starts with the differentiation according to granulometric differences, whereby coal and limestone are regarded as the

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11-1-1/29

Similarities and Differences of Features Between **Facies**, **Facies-Cyclic**  
and **Facies-Geotectonic** Methods of Studying Coal Bearing Strata

rocks with the finest granules. G.A. Ivanov emphasizes that his proposed facial-geotectonic method based on granulometric examinations and on the development of marked facies can chiefly be used by geologists prospecting for coal. G.A. Ivanov sees the essential difference between his method and the facial-cyclical analysis in the fact, that his method does not require the difficult separation and determination of numerous types of lithological rocks and their facial classification. He proposes to determine facies by cycles, and not cycles by facies, believing this method to be less difficult and more accurate. The author draws attention to the fact that not separate facies are determined by the Ivanov method, but groups of facies which are in contact with marked facies. The facial-cyclical method was successfully applied in the Kuznetsk and many other coal basins. Summarizing it may be stated that the facial geotectonic analysis of G.A. Ivanov has many similarities with the facial-cyclical method, in contrast to the facial analysis which disregards the rules of periodicity. In the lectures of T.A. Ishina, V.V. Koperina and others it is stated that facial

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11-1-1/29

Similarities and Differences of Features Between **Facies, Facies-Cyclic**  
and **Facies-Geotectonic** Methods of Studying Coal Bearing Strata

analysis represents the study of primary or genetic properties of rocks originating during the process of sedimentation and subsequent diagenetic transformation. Based on the total of these indications, conclusions are drawn pertaining to the conditions under which sedimentation took place and the facial composition of the coal-bearing strata is established. The author disagrees with this view, in as much as it does not consider the importance of sequence or alternation of rocks for the formation of facies, their paragenetic composition. Summarizing it may be stated that lithologists, using facial analysis of the improved stage, i.e. as a facial-cyclical method, will obtain better results and will further improve the method itself. Lithology of coal-bearing strata requires further studies and exchanges of experiences on the matter. At the present time there are no differences existing between the methods of approach which cannot be overcome as long as they are not throttled by denying the geotectonic factor of alternation of rocks or by disregarding the importance of studying the individual lithologic characteristics of rocks or by ignoring the importance of establishing the

Card 3/4

11-1-1/29

Similarities and Differences of Features Between **Facies, Facies-Cyclic**  
and **Facies-Geotectonic** Methods of Studying Coal Bearing Strata

different facies by all available methods.  
There are 18 Russian references.

AVAILABLE: Library of Congress

Card 4/4

RENGARTEN, A.V.

RUKHIN, Lev Borisovich, prof., doktor geologo-mineralogicheskikh nauk, red.; SERDYUCHENKO, D.P., prof., doktor geologo-mineralogicheskikh nauk, red.; TATARSKIY, Vitaliy Borisovich, prof., doktor geologo-mineralogicheskikh nauk, red.; KALINKO, M.K., kandidat geologo-mineralogicheskikh nauk, red.; RENGARTEN, N.V., kandidat geologo-mineralogicheskikh nauk, red.; RUSAKOVA, L.Ia., vedushchiy red.; YASHCHURZHINSKAYA, A.B., tekhn.red.

[Reference manual on the petrography of sedimentary rocks; two volumes] Spravochnoe rukovodstvo po petrografii osadochnykh porod; v dvukh tomakh. Leningrad, Gos.nauchno-tekhn.izd-vo nef. i gornotoplivnoi lit-ry, Leningr. otd-nie. Vol.1. [Conditions of formation, characteristics and minerals of sedimentary rocks] Usloviia obrazovaniia svoistva i mineraly osadochnykh porod. 1958. 485 p. Vol.2. [Sedimentary rocks] Osadochnye porody. 1958. 519 p. (MIRA 11:2)  
(Rocks, Sedimentary)

20-5-40/54

AUTHOR: Rengarten, N.V.

TITLE: The Part Played by Pyroclastic Material in the Karaganda Series of the Karaganda Basin (Rol' piroklasticheskogo materiala v Karagandinskoy svite Karagandinskogo basseyna)

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol.115, Nr 5, pp. 995-998(USSR)

ABSTRACT: The study of the substance composition of carbon sediments of North Kazakhstan' led to the result that the presence of pyroclastic material in them forms a characteristic feature of several coal-bearing suites. The Karaganda suite (850-900 m thickness) in general consists of polymictic sandstone (sometimes with gravel-flint material), aleurolithe, argyllite, coal-like argyllite and coal. The pyroclastic material is a component of all four parts into which the series decomposes (they are described in detail). The material mentioned occurs as intermediate layers between ash tufa, as an admixture of ash particles to terrigenous sediments and as tufa-like material displaced by river water in freshly washed-out districts. The part played by the material mentioned in the title can in general be summarized as follows:

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1.) The presence of tufa-like intermediate layers among the nor-

20-5-40/54

The Part Played by Pyroclastic Material in the Karaganda Series of the Karaganda Basin

mal sedimentary formations has a number of characteristics in the lithological structure of the cross section of the suite. 2.) The processes of decomposition of the ash material during the forming period of the suite caused the course of the mineral transformations of the sediments. They had, per saldo, guaranteed the manifold character which is now characteristic of the local rocks. 3.) The vitroclastic material which was blown into the peat moors, was able to activate a number of physical-chemical processes in the swamps which, in some cases, led to an increase of their fertility. 4.) A regular distribution of tuffogeneous rocks and a certain characteristic feature for every facial type of these rocks can serve as correlatives for the purpose of comparing and arrangement of the suite cross sections. So, for instance, the tuffs which are connected with coal measures  $k_1 - k_3^5$ ,  $k_8$  and  $k_{14}$  are predominant by their petrographical characteristics. There are 142 Slavic references.

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20-5-40/54

The Part Played by Pyroclastic Material in the Karaganda Series of the Karaganda Basin

ASSOCIATION: Laboratory for Coal-Geology, AN USSR, Leningrad  
(Laboratoriya geologii uglya Akademii nauk SSSR, Leningrad)

PRESENTED: D.V. Nalivkin, Academician, March 15, 1957

SUBMITTED: March 14, 1957

AVAILABLE: Library of Congress

Card 3/3

ISHINA, T.A.; KOPERINA, V.V.; ~~RENGARTEN~~, N.V.; SIATVINSKAYA, Ye.A.

Using the facies analytical method in geological prospecting  
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1. Laboratoriya geologii uglya AN SSSR.  
(Coal geology) (Prospecting)

RENGARTEN, N.V.

U S S R

62  
①

Exposures of phosphates in the low coal formations of the Karaganda basin and Zav'yalovsk deposit. A. A. Petrenko and N. V. Rengarten. *Doklady Akad. Nauk S.S.S.R.* 97, 310-22 (1954).—The information on the mode of deposition of phosphates in Central Kazakhstan does not bear out the theory of Kazakov (A. V. Kazakov, *Izvest Akad. Nauk S.S.S.R., Ser. Geol.* 1950, No. 5), which excludes phosphate deposition in depressions of the inclosed type, including the category of depressions and kettle holes with developed coal accumulations. J. S. Joffe.



RENGARTEN, N.V.

35912    bemit s severnogo kavkaza. doklady akad. nauksssr. novaya  
seriya, t. lxix, No 3, 1949, S. 425-27

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\* (Kazakhstan--Geology)

RENGARTEN, P.A.

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1. Aerogeologicheskii trest.  
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RENGARTEN, P.A.

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(Balkhash region--Geology, Stratigraphic)

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RENGARTEN, V. P.

"Volcanic Levels in the Cretaceous Deposits of the Eastern Transcaucasus,"  
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Central Sci. Res. Museum Geol. Prospecting (Director)

RENGARTEN, V. P.

Ural Mountain Region - Geology, Stratigraphic

Stratigraphy of the Cretaceous and Tertiary  
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1. Chlen-korrespondent Akademii nauk SSSR.  
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1. Chlen-korrespondent Akademii nauk SSSR.  
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RENGARTEN, V.P.

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(Caucasus--Geology, Stratigraphic) (Glazunov, A.E.)

RENGARTEN, V.P.

Stratigraphy of Cretaceous deposits of the northern zone of the Lesser  
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(Caucasus--Geology, Stratigraphic) (Geology, Stratigraphic--  
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RENGARTEN, V.P.

Tertiary effusions of the Northern Caucasus. Izv. AN SSSR. Ser.  
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[Key beds of lower Cretaceous sediments in Daghestan] Opornye  
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(Daghestan--Geology, Stratigraphic)

REINGARTEN, Vladimir Pavlovich (1882-1964); ZAKHIA GVA-ATABEKYAN,  
L.V., otv. red.

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 MENNER, V.V., zam. glav. red.; OVECHKIN, N.K., zam. glav.  
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 POLKANOV, A.A., red.[deceased]; RENGARTEN, V.P., red.; STEPANOV,  
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